



# G4 Manual for Building Smart RV Caravan/ Motor Home and Boat Systems



G4 RV Bible

 **FIRECRYPT**

Rev.1.0



# Smart Caravan/Motor Home System Ingredients

## Systems Inside Standard Motor Home:

### Entertainment:

Smart TV  
Set Top Box/DVD  
Speakers + Subs  
Blue Tooth Link  
Voice control  
Color Lights LED/ Disco

### Lighting and Power

Sockets/outlets Control  
Lights Control  
Pump Contro  
Main Panel (See diagram)

### Cooling Heating and Refrigeration

Heater system  
Air Conditioning  
Refrigerator  
Gas and Electrical Connection (See Diagram)

### GAS Tank Management

Gas Tank Level  
Gas Tank Control Valve  
Gas Pipes (See Diagram)

### Inverter Power

Inverter  
Charging  
Batteries & Connection (See diagram)

### Waste Water System

Potable Water Circuit  
Grey Water Drainage  
Black Water Containment  
Plumbing and refilling (See Diagram)

### Solar system

Thermal Panels  
Charge regulator  
Batteries  
Charge Selector (See diagram)

### Security Safety system

PIR  
Gas Leak  
Siren/Flasher (See diagram)

## Main Standard Needs:

### We need Relays to Control:

1 Water Pump  
1 Gas Valve  
1 Fridge Power  
1 TV Socket Power  
1 Main Lights Control Central  
2 Charge Selection  
1 Exhaust Ventilator

### We need to Monitor:

Battery Charge Level and actiivity  
Gas Tank Level  
Water Tank Level  
Grey Water Tank Level

Solar and Charge controller

RS232-Connected Scale/  
or spring contact NO/NC

Analogue float or Digital level Points

### Must Have Add Ons:

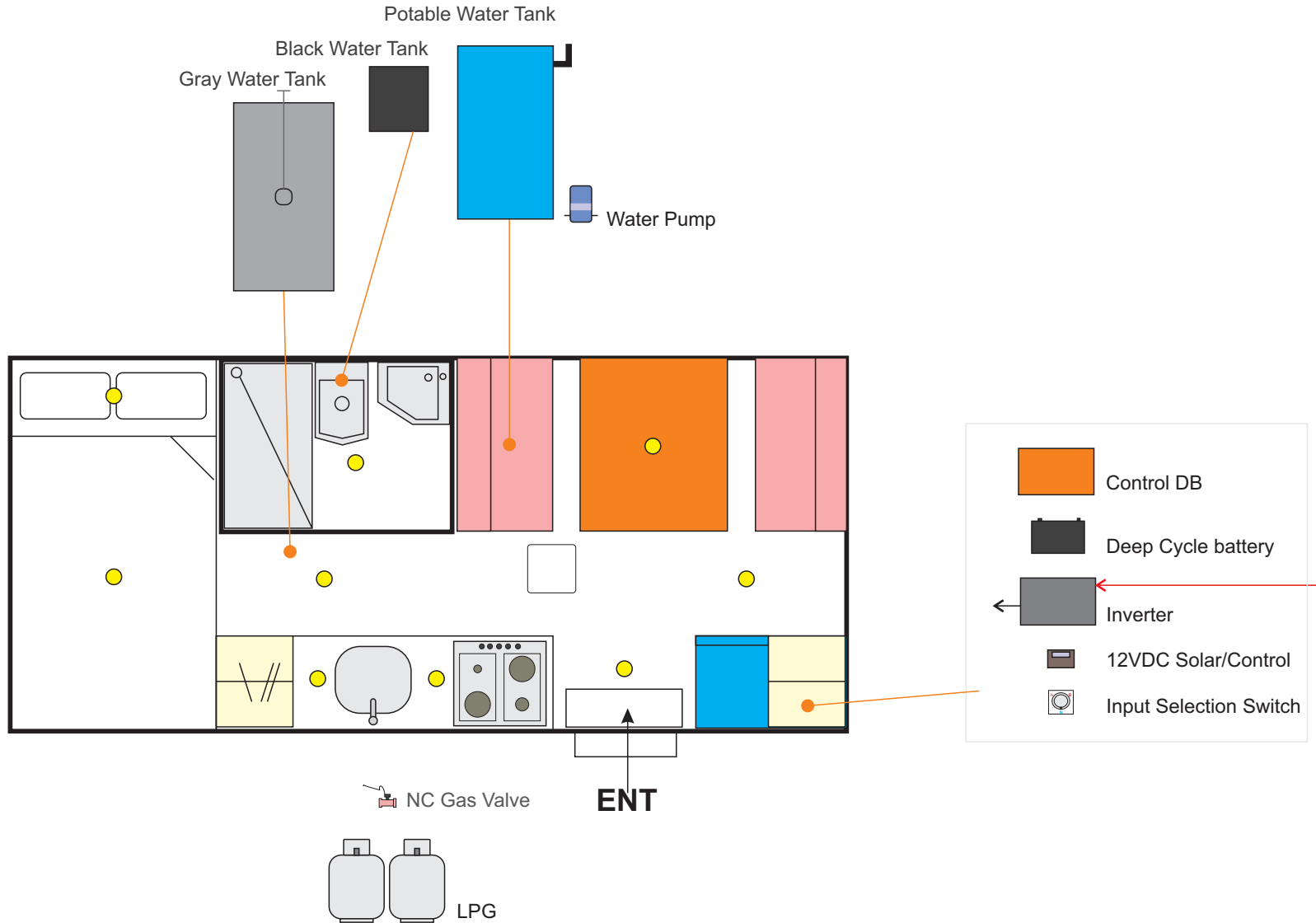
Blue Tooth Speaker  
5G/4G Wifi Access Point  
USB Charge Outlets  
Each with local Light Mini switch





# Building a Smart Caravan/Motor Home System

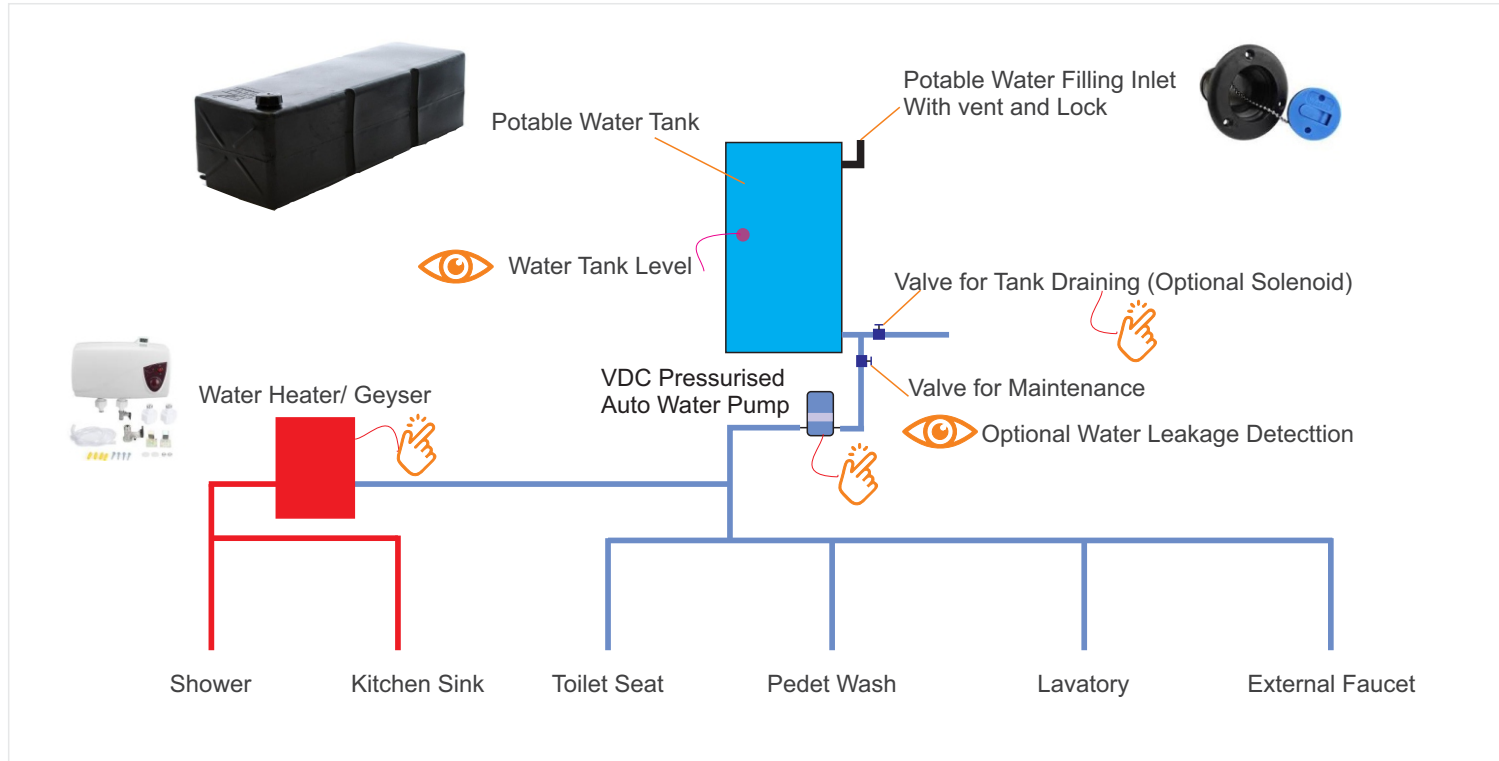
## Sample Small System Diagram






# Smart Caravan/Motor Home RV and Boat System

## Sample Potable Water System Diagram



 Wired Monitoring Point

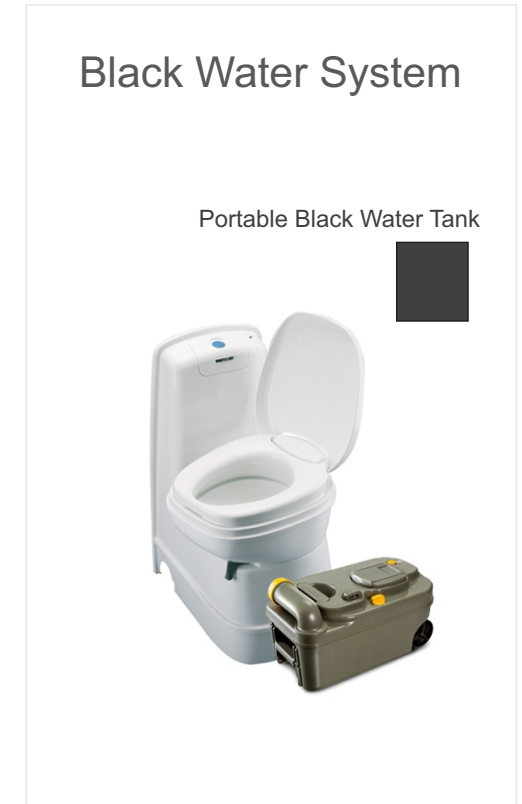
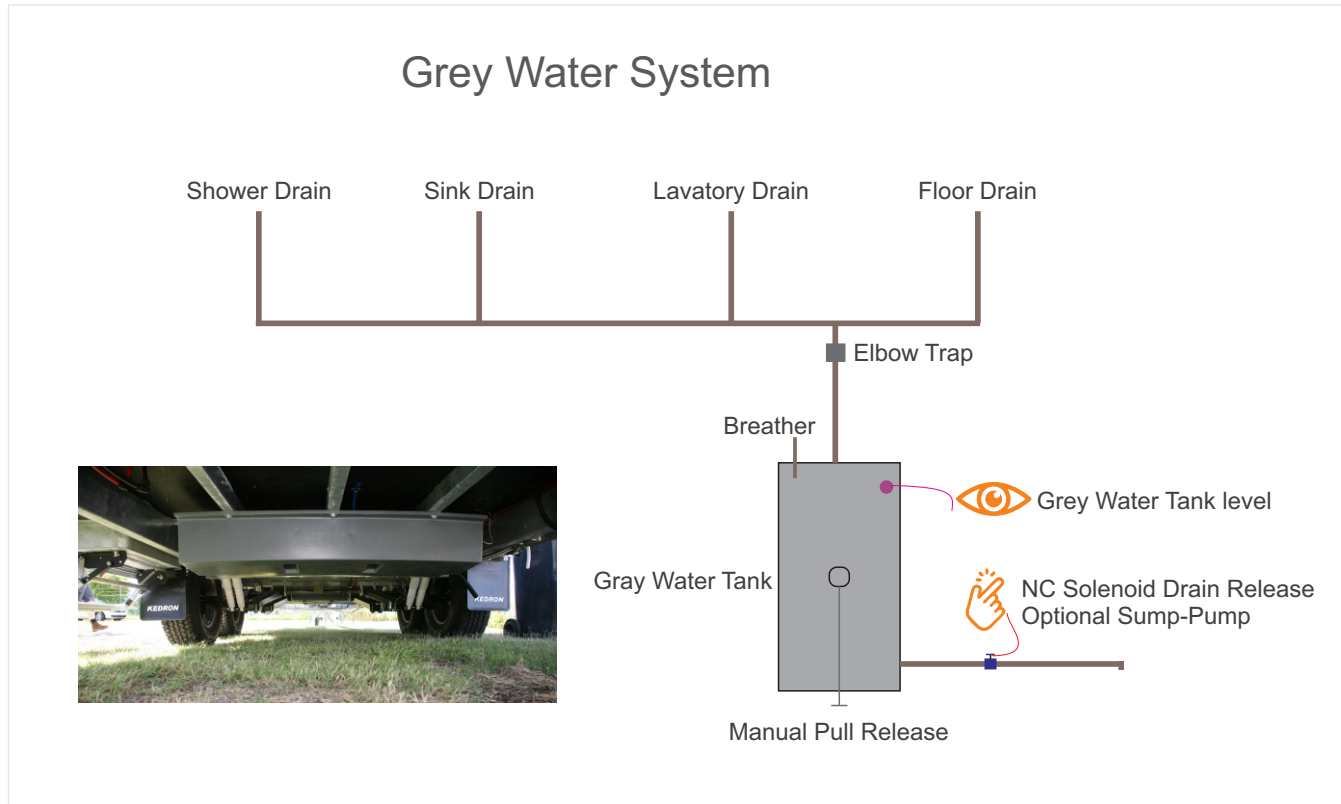
 Wired Controlled Point





# Smart Caravan/Motor Home RV and Boat System

## Sample Waste Water System Diagram

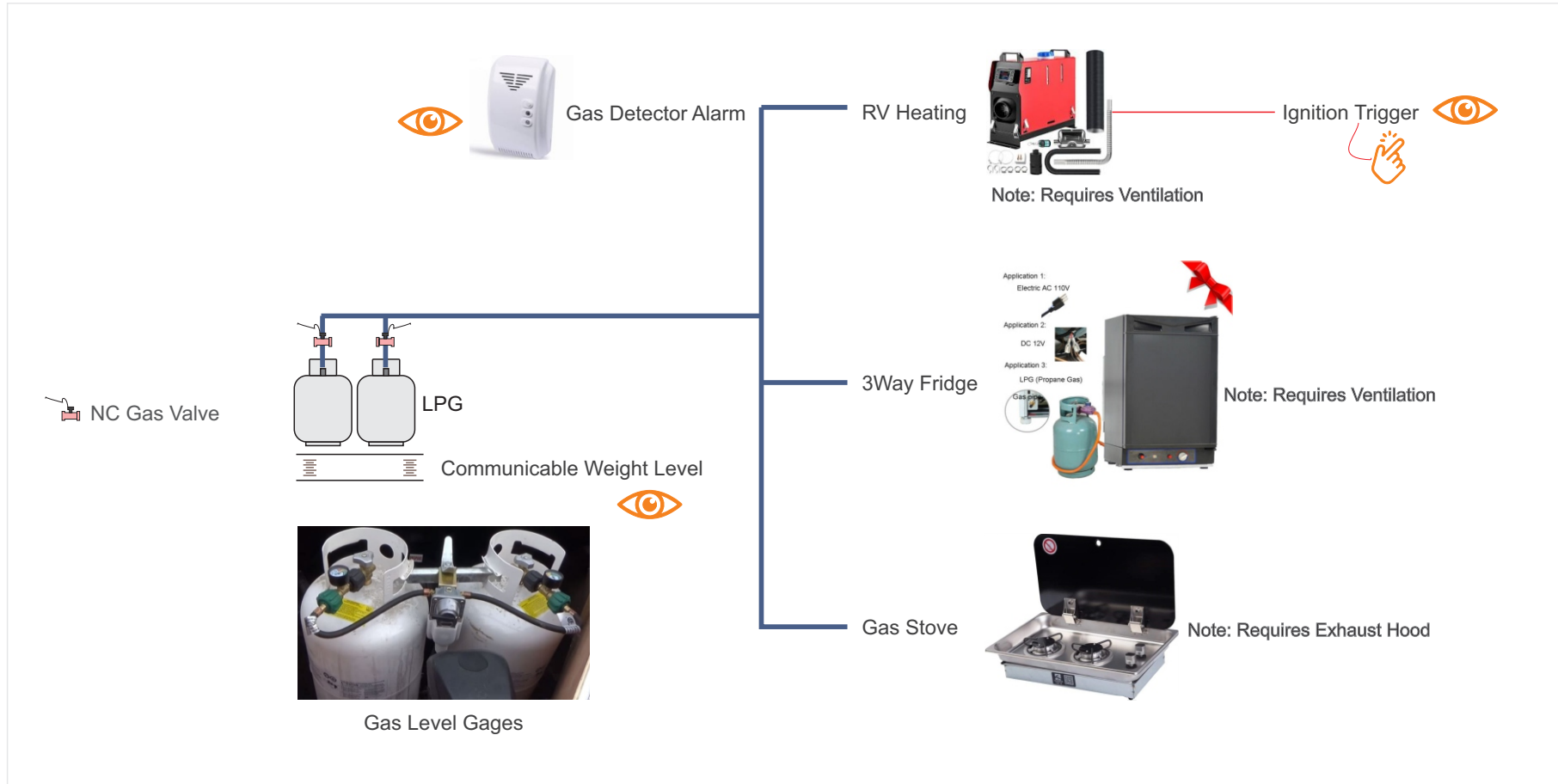


Note: Chemicals To Be added  
Emptying and cleaning in Black water system Only



# Smart Caravan/Motor Home RV and Boat System

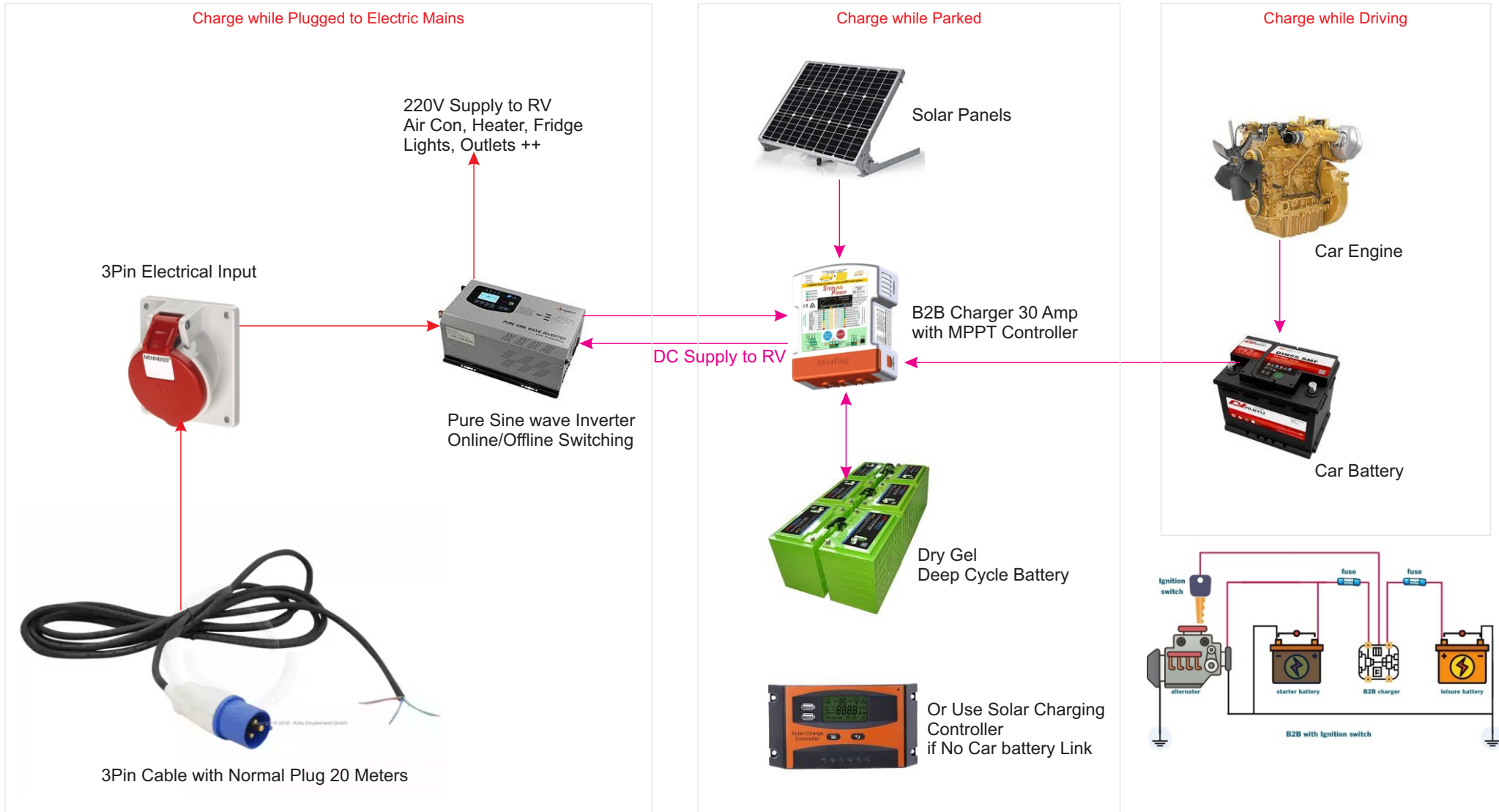
## Sample Gas System Diagram





# Smart Caravan/Motor Home RV and Boat System

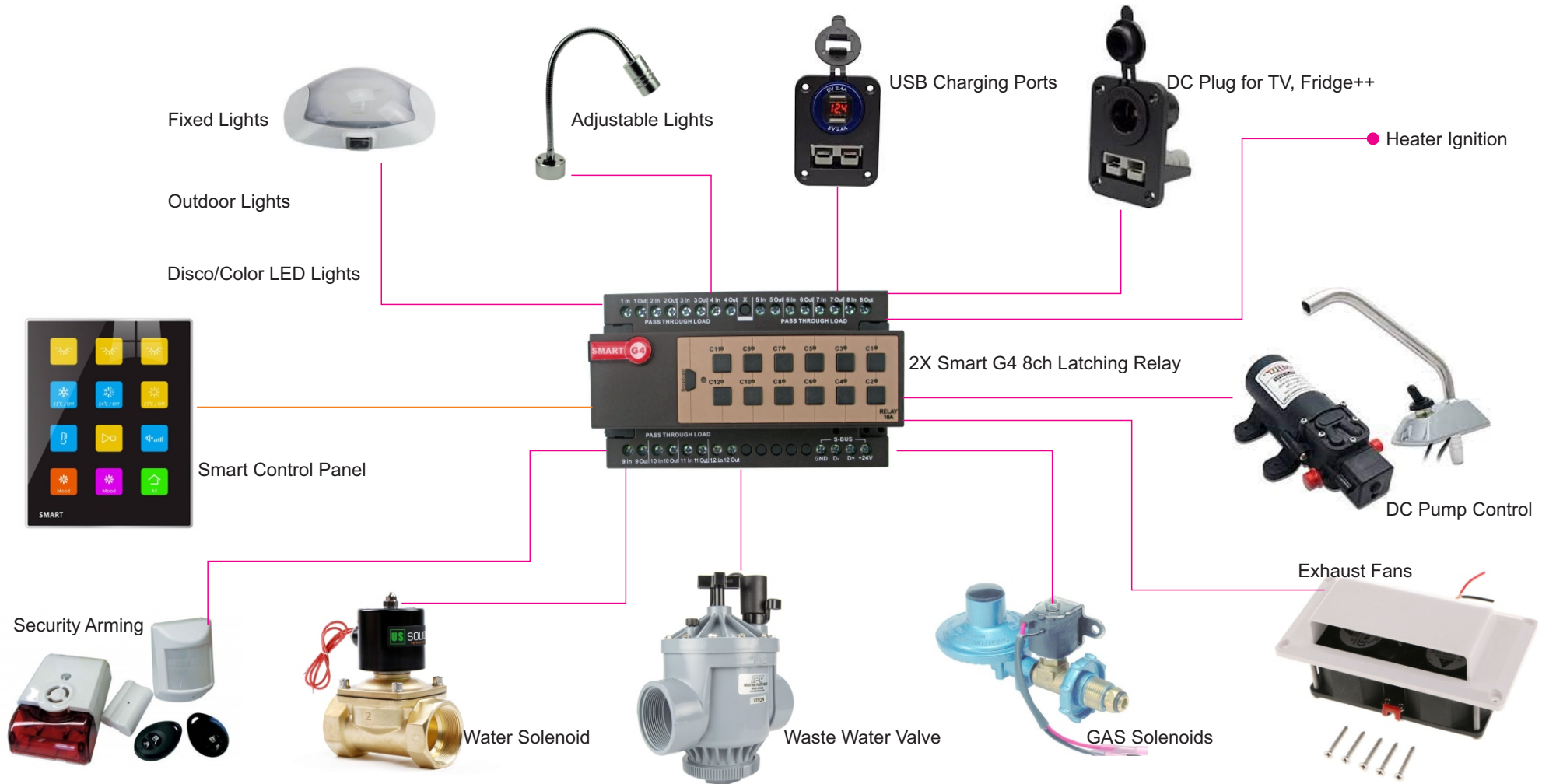
## Sample Solar and Electric Charging System Diagram





# Smart Caravan/Motor Home RV and Boat System

## Sample Power and Lights Control System Diagram







# Smart Caravan/Motor Home RV and Boat System

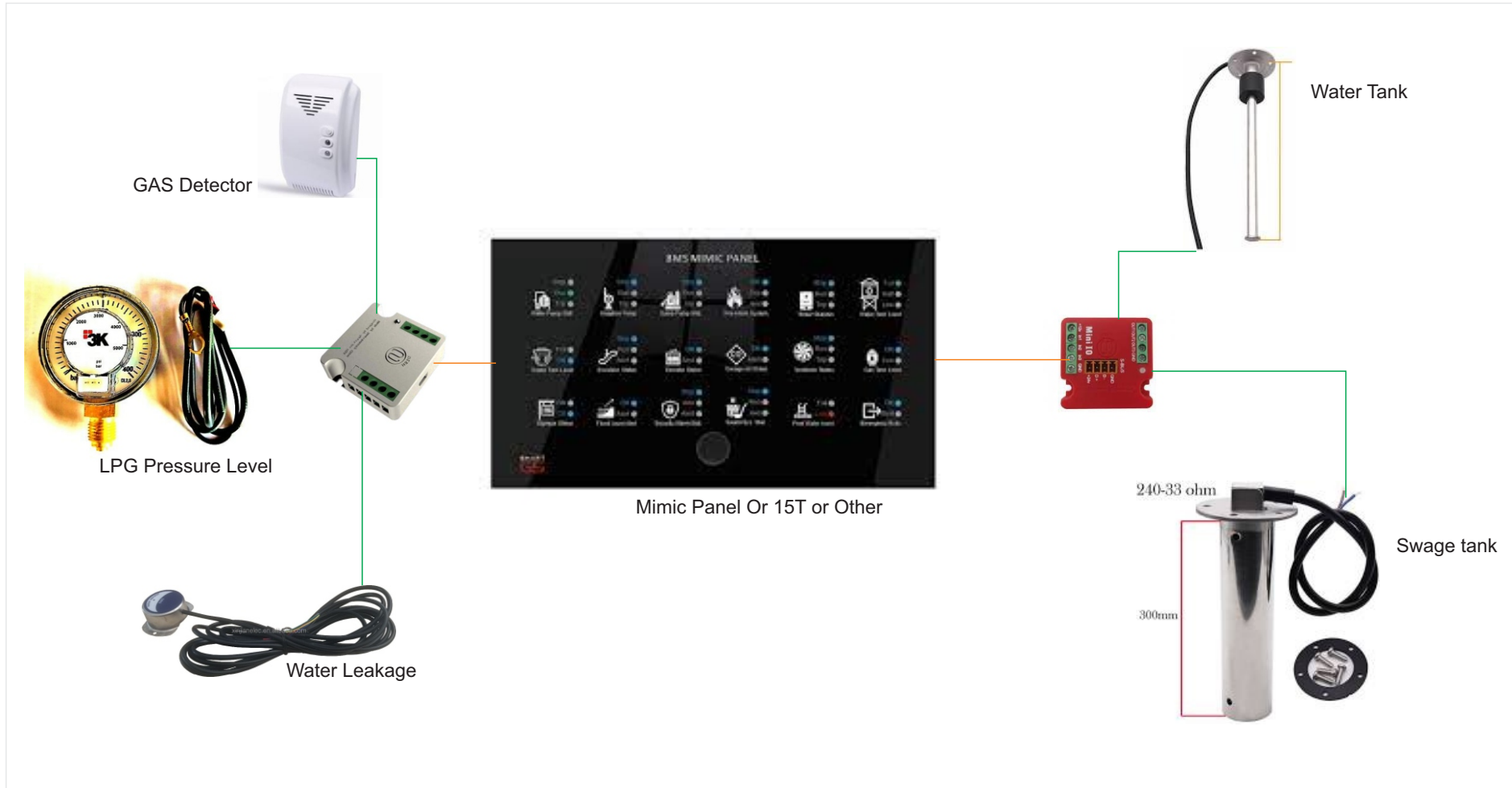
## Sample Entertainment System Diagram





# Smart Caravan/Motor Home RV and Boat System

## Sample Monitoring System Diagram





Turkey

CUTTING EDGE

ELEGANT

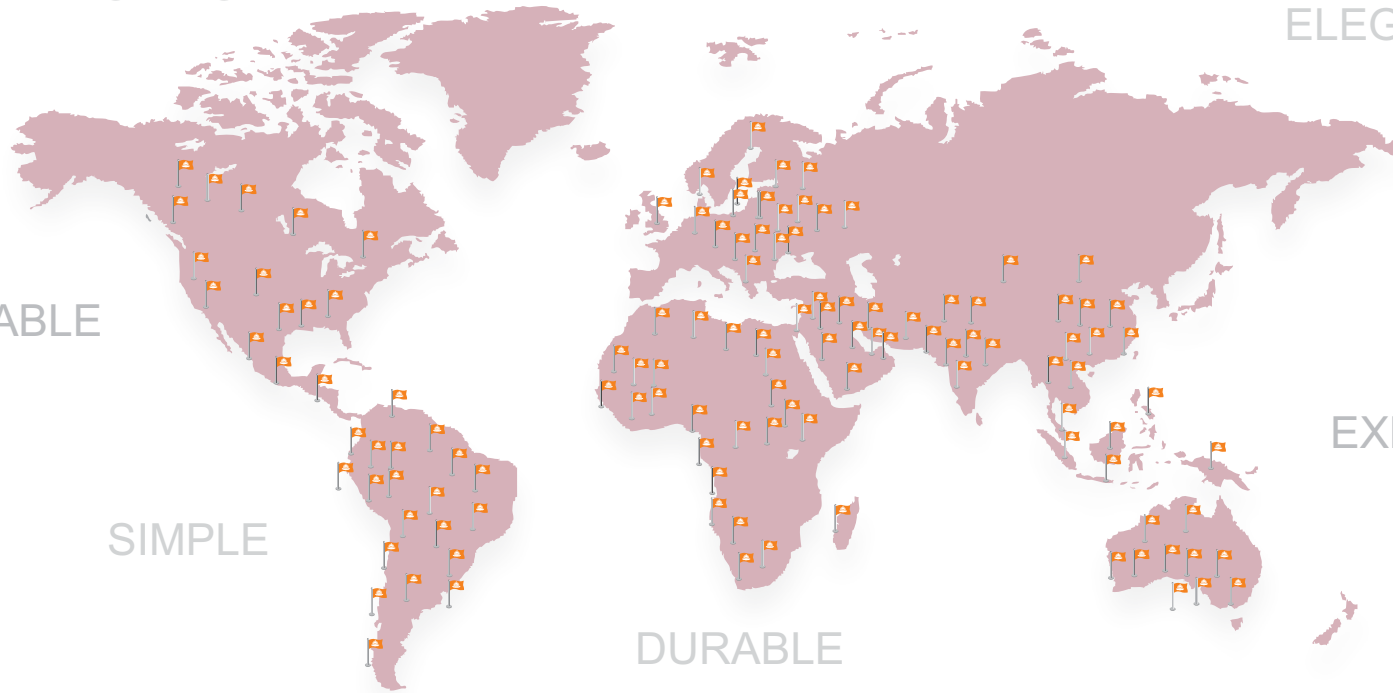
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EXPANDABLE

SIMPLE

DURABLE

SMART



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